



PCT

## RAW SEQUENCE LISTING

DATE: 01/29/2003

PATENT APPLICATION: US/10/030,613

TIME: 10:48:24

Input Set : A:\ippf0711pct.app.txt

Output Set: N:\CRF4\01292003\J030613.raw

4 <110> APPLICANT: INCYTE GENOMICS, INC.  
 5 TANG, Y. Tom  
 6 YUE, Henry  
 8 <120> TITLE OF INVENTION: HUMAN PROTEINS INVOLVED IN DETOXIFICATION  
 10 <130> FILE REFERENCE: PF-0711 PCT  
 C--> 12 <140> CURRENT APPLICATION NUMBER: US/10/030,613  
 C--> 13 <141> CURRENT FILING DATE: 2003-01-29  
 15 <150> PRIOR APPLICATION NUMBER: 60/142,678  
 16 <151> PRIOR FILING DATE: 1999-07-07  
 18 <160> NUMBER OF SEQ ID NOS: 4  
 19 <170> SOFTWARE: PERL Program  
 21 <210> SEQ ID NO: 1  
 22 <211> LENGTH: 234  
 23 <212> TYPE: PRT  
 24 <213> ORGANISM: Homo sapiens  
 26 <220> FEATURE:  
 27 <221> NAME/KEY: misc\_feature  
 28 <223> OTHER INFORMATION: Incyte ID No: 3751586CD1  
 30 <400> SEQUENCE: 1  
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 32 1 5 10 15  
 33 Leu Phe Leu Leu Cys Cys Ile Asp Arg Asp Trp Ala Val Thr Arg  
 34 20 25 30  
 35 Cys Phe Ala Glu Glu Ala Phe Gln Ala Ile Thr Asp Phe Asn Asp  
 36 35 40 45  
 37 Leu Pro Asn Ser Leu Phe Ala Cys Asn Val His Gln Ser Val Phe  
 38 50 55 60  
 39 Glu Gly Glu Glu Ser Lys Glu Lys Phe Glu Gly Leu Phe Arg Thr  
 40 65 70 75  
 41 Tyr Asp Asp Cys Val Thr Phe Gln Leu Phe Lys Ser Phe Arg Arg  
 42 80 85 90  
 43 Val Arg Ile Asn Phe Ser Asn Pro Lys Ser Ala Ala Arg Ala Arg  
 44 95 100 105  
 45 Ile Glu Leu His Glu Thr Gln Phe Arg Gly Lys Lys Leu Lys Leu  
 46 110 115 120  
 47 Tyr Phe Ala Gln Val Gln Thr Pro Glu Thr Asp Gly Asp Lys Leu  
 48 125 130 135  
 49 His Leu Ala Pro Pro Gln Pro Ala Lys Gln Phe Leu Ile Ser Pro  
 50 140 145 150  
 51 Pro Ser Ser Pro Pro Val Gly Trp Gln Pro Ile Asn Asp Ala Thr  
 52 155 160 165  
 53 Pro Val Leu Asn Tyr Asp Leu Leu Tyr Ala Val Ala Lys Leu Gly  
 54 170 175 180

ENTERED

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55 Pro Gly Glu Lys Tyr Glu Leu His Ala Gly Thr Glu Ser Thr Pro
56                               185                               190                               195
57 Ser Val Val Val His Val Cys Asp Ser Asp Ile Glu Glu Glu Glu
58                               200                               205                               210
59 Asp Pro Lys Thr Ser Pro Lys Pro Lys Ile Ile Gln Thr Arg Arg
60                               215                               220                               225
61 Pro Gly Leu Pro Pro Ser Val Ser Asn
62                               230
64 <210> SEQ ID NO: 2
65 <211> LENGTH: 388
66 <212> TYPE: PRT
67 <213> ORGANISM: Homo sapiens
69 <220> FEATURE:
70 <221> NAME/KEY: misc_feature
71 <223> OTHER INFORMATION: Incyte ID No: 4369745CD1
73 <400> SEQUENCE: 2
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76 Gly Ser Pro Thr Arg Ser Glu Lys Glu Gln Val Ser Ile Ser Ser
77                               20                               25                               30
78 Phe Tyr Tyr Lys Glu Arg Lys Ser Arg Arg Trp Lys Ser Lys Arg
79                               35                               40                               45
80 Glu Gly Ser Asp Ser Gly Asn Arg Gln Ile Lys Ala Ala Gly Lys
81                               50                               55                               60
82 Val Ile Ile Gln Asp Ile Ala Cys Leu Leu Pro Val His Lys Ser
83                               65                               70                               75
84 Leu Gly Glu Leu Tyr Ile Leu Asn Val Asn Asp Ile Gln Glu Thr
85                               80                               85                               90
86 Cys Gln Lys Asn Ala Ala Ser Ala Leu Leu Val Gly Arg Lys Asp
87                               95                               100                              105
88 Leu Val Gln Val Trp Ser Leu Ala Thr Val Ala Thr Asp Leu Cys
89                               110                              115                              120
90 Leu Gly Pro Lys Ser Asp Pro Asp Leu Glu Thr Pro Trp Ala Arg
91                               125                              130                              135
92 His Pro Phe Gly Arg Gln Leu Leu Glu Ser Leu Leu Ala His Tyr
93                               140                              145                              150
94 Cys Arg Leu Arg Asp Val Gln Thr Leu Ala Met Leu Cys Ser Val
95                               155                              160                              165
96 Phe Glu Ala Gln Ser Arg Pro Gln Gly Leu Pro Asn Pro Phe Gly
97                               170                              175                              180
98 Pro Phe Pro Asn Arg Ser Ser Asn Leu Val Val Ser His Ser Arg
99                               185                              190                              195
100 Tyr Pro Ser Phe Thr Ser Ser Gly Ser Cys Ser Ser Met Ser Asp
101                               200                              205                              210
102 Pro Gly Leu Asn Thr Gly Gly Trp Asn Ile Ala Gly Arg Glu Ala
103                               215                              220                              225
104 Glu His Leu Ser Ser Pro Trp Gly Glu Ser Ser Pro Glu Glu Leu
105                               230                              235                              240
106 Arg Phe Gly Ser Leu Thr Tyr Ser Asp Pro Arg Glu Arg Glu Arg

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107          245          250          255
108 Asp Gln His Asp Lys Asn Lys Arg Leu Leu Asp Pro Ala Asn Thr
109          260          265          270
110 Gln Gln Phe Asp Asp Phe Lys Lys Cys Tyr Gly Glu Ile Leu Tyr
111          275          280          285
112 Arg Trp Gly Leu Arg Glu Lys Arg Ala Glu Val Leu Lys Phe Val
113          290          295          300
114 Ser Cys Pro Pro Asp Pro His Lys Gly Ile Glu Phe Gly Val Tyr
115          305          310          315
116 Cys Ser His Cys Arg Ser Glu Val Arg Gly Thr Gln Cys Ala Ile
117          320          325          330
118 Cys Lys Gly Phe Thr Phe Gln Cys Ala Ile Cys His Val Ala Val
119          335          340          345
120 Arg Gly Ser Ser Asn Phe Cys Leu Thr Cys Gly His Gly Gly His
121          350          355          360
122 Thr Ser His Met Met Glu Trp Phe Arg Thr Gln Glu Val Cys Pro
123          365          370          375
124 Thr Gly Cys Gly Cys His Cys Leu Leu Glu Ser Thr Phe
125          380          385
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128 <211> LENGTH: 934
129 <212> TYPE: DNA
130 <213> ORGANISM: Homo sapiens
132 <220> FEATURE:
133 <221> NAME/KEY: misc_feature
134 <223> OTHER INFORMATION: Incyte ID No: 3751586CB1
136 <400> SEQUENCE: 3
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138 aggacttttc ttactgtgct gcatagacag ggactgggct gtcactcggt gttttgcaga 120
139 agaagccttt caagcaatca ctgacttcaa tgacctcccc aactcgttgt ttgcgtgcaa 180
140 tgttcaccag tcagtgtttg aaggagaaga gagcaaggaa aaatttgagg gactgtttcg 240
141 gacttatgat gactgtgtga cgttccagct atttaagagt ttcagacgtg tccgtataaa 300
142 cttcagcaat cctaaatctg cagcccagagc taggatagag cttcatgaaa cccaattcag 360
143 agggaaaaaa ttaaagctct actttgcaca ggttcagact ccagagacag atggagacaa 420
144 actgcacttg gctccacccc agcctgccaa acagtttctc atctcgcccc cttcctcccc 480
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147 cccaagtgtc gtctgtcacg tgtgcgacag tgacatagag gaagaagagg acccaaagac 660
148 ttcccccagg ccaaaaatca tccaaactcg gcgtcctggc ctgccaccct ccgtgtccaa 720
149 ctgagctgcc tgctccttct cgataatagc cgtctcctct ttatcatgct ttttccccct 780
150 gttgtttgtc aaaaaaatt gcctttaaat tcctgggtgt ttggttgttt gagattcctt 840
151 ccttgttatc aagcctctcg gacaaaaggg ctaggaaaag gtgatatgtc tcctgatcat 900
152 atcataccca ttaagtataa ccattattt agaa 934
154 <210> SEQ ID NO: 4
155 <211> LENGTH: 1890
156 <212> TYPE: DNA
157 <213> ORGANISM: Homo sapiens
159 <220> FEATURE:
160 <221> NAME/KEY: misc_feature

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161 <223> OTHER INFORMATION: Incyte ID No: 4369745CB1  
163 <400> SEQUENCE: 4  
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166 ccactcgag cgagaaagag caggtctcca tcagctcctt ctactacaag gagcggaat 180  
167 caagacgatg gaaaagtaag cgtgagggat cagactctgg caatcgacag atcaaggctg 240  
168 ctgggaaagt catcatccag gatattgctt gcctcctgcc tgttcacaaa tcgctgggag 300  
169 agctgtacat attgaatgtg aatgatattc aggaacatg tcagaagaat gccgcctctg 360  
170 ccttgctcgt tgggaagaaag gatcttgctc aggtttggtc gctggctacg gtagctacag 420  
171 atctttgcct tgggtccgaaa tctgaccag atttggaaac accctgggct cgacatccat 480  
172 ttgggcggca gctgctggag tccctgttgg ctactattg ccggctccgg gatgttcaga 540  
173 cactggcgat gctctgtagc gtgtttgaag ccagctctcg gcctcagggg ctaccaaacc 600  
174 cctttgggcc ttttccaaac cgttcttcta atcttggtg gtcccatagt cgatatccta 660  
175 gctttacctc ttctggttcc tgctccagta tgtcagaccc agggctcaac actggcggct 720  
176 ggaacatagc ggggaagagag gcagagcact tgtcctcccc ttggggagaa tcctcaccag 780  
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178 atgataaaaa taaaaggctc ctggaccccc ccaataccca gcaatttgat gactttaaga 900  
179 aatgctatgg ggaatcctc taccgttggg gtctgagaga gaagcgagct gaagtgttga 960  
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189 aggtggaagt tttcatggag aaaagcacct ggctccaggg ccagtgttac agtgttacc 1560  
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193 ttaaattgta aatatgcact gtacttaagg attcttaaga tgtatttttt tgttatttct 1800  
194 cctccagctg ctatcccttg gctaataaaa ttctagtaat ttgaaaaaaa aaaaaaagag 1860  
195 agaaagttaa acaacaaaaa aaaaaaaaaa 1890

**VERIFICATION SUMMARY**

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Input Set : A:\ippf0711pct.app.txt

Output Set: N:\CRF4\01292003\J030613.raw

L:12 M:270 C: Current Application Number differs, Replaced Current Application Number  
L:13 M:271 C: Current Filing Date differs, Replaced Current Filing Date